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APPLICATION NO.	FILING	DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/921,181	09/921,181 08/02/2001		Mark J. Chiappetta	09945-006001 / CTR-3	6104	
26161	7590 05/12/2004			EXAMINER		
FISH & RIC	CHARDSON	N PC	PIHULIC, DANIEL T			
225 FRANKLIN ST BOSTON, MA 02110				ART UNIT	PAPER NUMBER	
				3662		
				DATE MAIL ED: 05/12/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

				9			
		Application No.	Applicant(s)				
Office Action Summary		09/921,181	CHIAPETTA, MARK J.				
		Examiner	Art Unit				
		Daniel Pihulic	3662				
Period fo	The MAILING DATE of this communication Reply	n appears on the cover sheet	with the correspondence address				
THE - Exte after - If the - If NC - Failt Any	ORTENED STATUTORY PERIOD FOR R MAILING DATE OF THIS COMMUNICATI nsions of time may be available under the provisions of 37 C SIX (6) MONTHS from the mailing date of this communicati e period for reply specified above is less than thirty (30) days period for reply is specified above, the maximum statutory ure to reply within the set or extended period for reply will, by reply received by the Office later than three months after the ed patent term adjustment. See 37 CFR 1.704(b).	ION. FR 1.136(a). In no event, however, mayon. , a reply within the statutory minimum of period will apply and will expire SIX (6) No statute, cause the application to become	a reply be timely filed thirty (30) days will be considered timely. IONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).				
Status							
1)	Responsive to communication(s) filed on	17 February 2004.					
2a)□		This action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
5)⊠ 6)⊠ 7)⊠ 8)□ Applicat	Claim(s) 20-27,54-61 and 81-88 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) 20-27,54-61 and 81-85 is/are allowed. Claim(s) 86 is/are rejected. Claim(s) 87 and 88 is/are objected to.						
	The specification is objected to by the Exa						
10)⊠	The drawing(s) filed on 13 August 2002 is	s/are: a)⊠ accepted or b)□	objected to by the Examiner.				
	Applicant may not request that any objection	- · ·	• • • • • • • • • • • • • • • • • • • •				
11)	Replacement drawing sheet(s) including the compact to the control of the control		• •				
Priority	under 35 U.S.C. § 119						
a)	Acknowledgment is made of a claim for for All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International E	uments have been received. uments have been received i e priority documents have be Bureau (PCT Rule 17.2(a)).	n Application No een received in this National Stage	~*			
Attachmei	nt(s)						
	ce of References Cited (PTO-892)		w Summary (PTO-413)				
3) Info	ce of Draftsperson's Patent Drawing Review (PTO-94 rmation Disclosure Statement(s) (PTO-1449 or PTO/9 er No(s)/Mail Date		No(s)/Mail Date of Informal Patent Application (PTO-152)				

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Application Number: 09/921,181

Art Unit: 3662

1. Applicant's arguments, filed 2/17/04, with respect to claims 86-88 have been fully considered and are persuasive. Applicant stated that the limitation of the shape of a waveform does not include frequency differences. Applicant's specification discusses waveforms in terms of shape and frequency, thus implying they are different characteristics.

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claim 86 is rejected under 35 U.S.C. 103(a) as being unpatentable over Takahashi. The Takahashi reference discloses transmitting a waveform having a predetermined shape (12); receive a signal (18 & 19); analyzing the shape of the signal (14); and determining if the signal comprises an echo of the waveform based on analysis of the shape of the signal and the waveform having the predetermined shape as recited in the claims. The difference between the Takahashi reference and the claims is that the claim recites the utilization of a computer program. It was well known in the art to utilize computers and computer programs in echo ranging system. It would have been obvious to modify the Takahashi reference to utilize a computer and a computer program as motivated by the well known characteristics of a computer base systems have such as compact size and lower power consumption to enable the Takahashi system to be smaller and lighter and to use less power.

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4. Claims 20-27, 54-61 and 81-85 are allowed.

5. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Daniel Pihulic whose telephone number is 703-306-

4168. The examiner can normally be reached on Monday through Thursday from 7

a.m. to 5 p.m. If attempts to reach the examiner by telephone are unsuccessful, the

examiner's supervisor, Thomas Tarcza, can be reached on 703-306-4171.

The fax phone numbers for the organization where this application or proceeding is

assigned are:

703-872-9306 for official responses, and

703-746-3847 for unofficial communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703-308-1113.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAIR. Status

information for unpublished applications is available through Private PAIR only. For

more information about the PAIR system, see http://pair-direct.uspto.gov. Should you

have questions on access to the Private PAIR system, contact the Electronic Business

Center (EBC) at 866-217-9197 (toll-free).

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Daniel Pihulic Primary Examiner Art Unit 3662